Senior Electronics Engineer

Clearance: Top Secret SCI (25 March 1993)

Member and principal technical advisor, Chief of Naval Operations' Weapon System Explosives Safety Review Board (WSESRB): Responsible for safety certification of Navy weapon systems and related systems (1984 – Jun 2001). Chairperson, WSESRB Software Systems Safety Technical Review Panel (SSSTRP) (1991 – Mar 2001): Developed criteria for and established SSSTRP, which is responsible for safety and suitability certification of software in Navy weapons and related systems. Contracting Officer's Representative on System Safety Engineering Technical Support contracts (1985 – 2001). WSESRB technical liaison to Fuze Engineering Standardization Working Group (FESWG) and Electronic Industries Association (EIA) G-48 committee. Chairperson, Joint Services Safety Conference Software Systems Safety Committee (1996 - present). Chairperson NATO AC/310 Subgroup IV Expert Working Group on Munition Related Safety Critical Computing Systems (1992 to present). US National Leader, Technology Transfer Coordinating Programme (TTCP) Joint Systems Analysis (JSA) Action Group 4 (AG-4) on Safety Critical Systems (August 1997 to July 2000. US National Leader to JSA AG-4 follow-on focus group, July 2000 to present). Chairperson, Fuze Engineering Standardization Working Group Expert Working Group on Ignition Systems (April 1998 to May 2001). President, System Safety Society, (1993-1995). General Chair, Navy Weapon System Safety Symposium (1997, 2001). Local Arrangements Chair, 15th International System Safety Conference (1996-1997). Member, Computer Assurance (COMPASS) Conference Board of Directors (1986 – 1993).

- Principal for Safety: CVN-77 program (2001 to present)
- Principal for Safety: Multi-Function Radar AN/SPY-3 (1999 – 2001)
- Principal for Safety: Navy Advanced Technology Demonstration program for the Army Tactical Missile System (1993-1995)
- Supervised three electronics engineers, GS-12, one mechanical engineer, GS-12, one computer specialist GS-11, one electronics engineer, GS-11, one electronics technician, GS-11 and one computer specialist, (1991 – 1998). Supervised several Co-operative Education students and student trainees (1991 – 1997).

1985–1991   NSWCDD H11   Dahlgren, VA

Clearance: Secret, CNWDI, NATO

Head, Software Safety and Safety Data section and Acting Head, Weapons Protection Section, Systems Engineering Branch. Technical supervision of three engineers, one computer assistant, two technicians, two cooperative education students. Alternate Technical Advisor to Navy's WSESRB. Chair, NATO Ad Hoc Working Group on Munition Related Safety Critical Computing System (1987-1991). Primary author of NATO Standardization Agreement 4404 on Safety Design Requirements and Guidelines for Munition Related Computing Systems and STANAG 4452, Safety Assessment Requirements for Munition Related Computing Systems. Secretary, Computer Assurance Board of Directors (1987 - 1993). Principal for Safety, 5" Semi-Active Laser Guided Projectile and numerous other Navy weapons.

1979 - 1985   NSWCDD N42   Dahlgren, VA

Journeyman Systems Safety Engineer

Clearance: Secret

Principal for Safety and Safety Program Manager for numerous Navy and Marine Corps programs including 5" SALGP, LVT(X), 90mm Cockerill cannon and ammunition for the LAV(A), MK34 Gun Weapon System, AEGIS DDG-51 Combat System,

1978-1979   NSWCDD N33   Dahlgren, VA

Journeyman Electronics Engineer

Develop test procedures for recertification of USS BELKNAP Naval Tactical Data System

Begin design of Weapon Direction System for CV, CVN

1974 - 1978   NSWCDD KBF   Dahlgren, VA

Electronics Engineer

Design and develop interface between A6-E on-board computer and environment simulator

Assist in running test procedures for Safety of Flight IV&V on A6-E Operational Flight Program

Part of transition team transferring A6-E Safety of Flight IV&V program to NAWC China Lake